



## SWARC NEWS

### Notes from K7RLH

Our September meeting was well attended, particularly in light of continued health issues experienced by several of our members.

We ask you to keep the following in your thoughts and prayers:

Gary, KO4LQX, was present and said that he is gradually building up strength to resume a normal level of activity. It was good to see him at the meeting as well as the recent swapfest.

Kenny, KJ4CVK, has new medical issues and some home-related issues affecting him. He was recently diagnosed with kidney failure and another ailment, but is awaiting test results to determine if dialysis will be needed. On the home front, his bedroom/radio room was at least partially demolished to repair water damage from a previous home improvement project. Therefore, he has no radios to communicate with.

**News flash: Miss Velda, K4VJC, after four long months finally has feeling in her legs, which is a huge answer to prayer. Please keep Velda and Mike (KD4MC) Callam and family in your thoughts and prayers.**

Steve, KA0GMY, continues to have some significant health issues, so remember him, Steve Jr., and Miss Gloria as well.

Look for other news and info in the body of the newsletter.

***Thanks to all those who responded to my suggestion/request that you show commitment to South Wake ARC by renewing your membership for the upcoming fiscal year. We continue to experience some growth with new members coming in thru exposure to the club at Field Day or from testing sessions.***

SWARC de K7RLH

## Notes from KO4ZFO

Hello South Wake ARC members!

What a great presentation we had from Tadd, KA2DEW.

Our next club meeting will be on Wednesday October 5th. Our plan is to have a 'building' night where we will construct a quarter-wave antenna, probably for UHF but provide you with the info needed to make one for any desired frequency.

Looking forward to seeing folks at the next meeting!

Cheers and 73,

Rodney KO4ZFO

## SWARC 7 September 2022 Meeting Minutes

Since we currently have no club secretary, here is a recap of the meeting.

We had attendance of 14 persons present – this included our speaker, Tadd Torborg, KA2DEW, and one guest that I unfortunately did not get a chance to meet or capture his call sign.

Attendees included:

Richard Hall (K7RLH), Dave Yow (K4MSE), Bill Blomgren (KK4QDZ), Rodney Warren (KO4ZFO), Al Crawford (WA4TCJ), Andy McDaniel (KN4JJU), Steve Susanne (WB4SMS), Mike Gaither (K4MWG), John Ostrander (KM4EZK), who turned in his membership application, Gary Plante (KO4LQX), visitors Ed Castle (N1WMM), Tom Stacy (KO4NSE), our speaker Tadd Torborg (KA2DEW), and our unnamed guest.

## **Old/Unfinished Business**

Following the presentation by Tadd Torborg, KA2DEW, the club members present voted to allow the three-node packet station to officially become part of our radio room. However, our constitution requires at least 30% of 'full' membership to be present to enable business to be conducted. I believe that means that all business we have conducted in recent history is in violation of our constitution and that must be changed so that the club can function properly. I will appoint a review committee to look at how we might upgrade our constitution to reflect the current state of meeting attendance. **We appreciate each and every one of you that renews each year whether or not you attend a meeting, but that doesn't address the current issue. Stay tuned for future announcement of potential revisions to our governing document. Of course, that may require a vote by email, which is a less than desirable process and outcome.**

## **New Business**

No official business, but reporting on the building rekeying issue, we only have one key to the radio room, which is kept in the lock box by the door. Members wishing to access the radio room should contact one of the officers for the key box combination.

## **Food for Thought**

If you are an ARRL member, please read the Club Station article on page 78 of the September issue for thoughts on club rejuvenation. It's time to change the paradigm and move past COVID inhibitions. That's not to say we can't do Zoom

meetings when appropriate, such as when a speaker would have to travel a long distance to present in person. Please send me any thoughts you have regarding how the club might move forward and what would help new hams the most, e.g., you becoming an 'Elmer' or shedding some excess gear to help someone get started. In case you don't know, the club sponsors the CENCAR VE Team and we need to attract successful applicants in the local area to consider joining for the activities that we sponsor or advocate for.

### **Presentation Topic**

The presentation by Tadd Torborg, KA2DEW, on the NC Packet organization and the Terrestrial Amateur Radio Packet Network (TARPN) was very informative and captured the attention of the audience. NC Packet promotes the use of VHF/UHF radios in conjunction with a TNC, Raspberry Pi, and batteries to allow hams to chat with each other using only radio waves and their computer. In addition to his slide presentation, there was a live demo station in the meeting room linked to the node station down in the radio room. Tadd contacted several TARPN/NC Packet members via the 'chat' function to demonstrate sending messages without the Internet. The Q&A session caused the meeting to go past 8:00 pm which is our normal adjournment benchmark. At some point soon, we will post his presentation slides on our web page so that members unable to attend can view the concept.

## **TREASURER'S REPORT**

Christy Fernandini was not present but subsequently furnished a report with current balance of \$2,026.17. Dues was the revenue and the expense covered a bank service fee. We continue to get membership renewals which provide the revenue stream—thank you all!

## **MEMBERSHIP**

You can bring a check or cash for dues to the next meeting or mail them to the club PO box and Christy will let me know she has received them. Also, you can now renew somewhat online by contacting Christy and giving her the appropriate

credit card info for the Square account. Christy's email is  
christyfernandini@outlook.com

Makes checks payable to South Wake ARC.

Send it to South Wake ARC – PO Box 1565 – Fuquay Varina, NC 27526

Steve,

WB4SMS

# NET REPORT

SWARC Group – August 2022

We have three individuals who can be referred to as net check in champs for April; they are Bill, KK4QDZ, Al, WA3JJG and Al, WA4TCJ. The monthly total of check-ins was 260. Note that **not** all net controls record their counts so numbers could be higher than recorded.

I look forward to hearing you on the net!

- For the time being, until further notice, Kenny, KJ4CVK, has **backed away from calling nets due to the lack of available radios as reported above.**
- Saturday and Sunday evenings will be called by KT4JR & K7RLH
- KO4ZFO will call Monday evenings
- KA0GMY will call Tuesday evenings (backup is K7RLH)
- KK4BK will call Wednesday evenings except on meeting nights
- KO4ZFO or someone else** to pick up Thursday evenings
- Fridays will continue to be called by NC4MP
- And we need backups – JUST BECAUSE.

Please contact Richard Hall, K7RLH, if you are interested in calling one or more nets.

## Public Service

*Check the HPSNC.org web site often for Public Service opportunities.  
The public service season is upon us and events need volunteers.*

# SWARC Mission Statement

South Wake ARC's primary purpose is to further the Amateur Radio Service through programs, activities, and education, in order to promote the radio knowledge, fraternalism and individual operating efficiency of its members. Further, it shall be our purpose to support the welfare of our community through public service including radio communications for emergency situations and public events, and through providing information, training, and assistance to individuals or organizations with an interest in the Amateur Radio Service.

## ***BOARD OF DIRECTORS***

### **President**

Richard Hall--K7RLH

### **Vice President**

Rodney Warren—KO4ZFO

### **Secretary**

Vacant

### **Treasurer**

Christy Fernandini - KJ4AEO

### **Member-At-Large**

Al Crawford – WA4TCJ

### **Member-At-Large**

Bernie Jones – N4BAJ

### **Member-At-Large**

Mike Gaither –  
K4MWG

### **Member-At-Large**

Brian Knox--KK4BK

### **Membership Chair**

Steve Suzanne—  
WB4SMS

## ***Appointed Positions***

### ***NET MANAGER***

Kenny Souther-KJ4CVK

### ***Special Events Director***

Gino Fernandini –KI4YXO

### ***Public Service Director***

David Krum – NW3U

**LINKS** (if you have other links you want added then send them to me)

***PRN***

***A Wide Area Digital Amateur Radio Network***

[www.ncprn.net](http://www.ncprn.net)

***GigaParts***

[www.gigaparts.com](http://www.gigaparts.com)

***QRZ***

[www.qrz.com](http://www.qrz.com)

***Ham Radio Outlet HRO***

[www.hamradio.com](http://www.hamradio.com)

***Raleigh Amateur Radio Society RARS***

[www.rars.org](http://www.rars.org)

***Johnson Amateur Radio Society JARS***

[www.jars.net](http://www.jars.net)

***South Wake Amateur Radio Club SWARC***

[www.southwakearc.com](http://www.southwakearc.com)

***Carolina 440 Network***

[www.carolina440.net](http://www.carolina440.net)

***\_North Carolina Packet***

[www.ncpacket.com](http://www.ncpacket.com)

***\_TARPN (Terrestrial Amateur Packet Radio Net)***

[www.tarpn.net](http://www.tarpn.net)

***Useful Ham Info***

[www.torborg.com/a](http://www.torborg.com/a)

## ARRL News

### Announcements

**The 5th QSO Today Virtual Ham Expo is returning September 17 - 18, 2022.** The fully-interactive and full-featured virtual ham radio convention will provide great interactive presentations, new content, and excellent networking opportunities including 50+ amateur radio presentations on a wide variety of subjects. Check out the full list of [Presentations](#) and get the downloadable schedule. For the first time, anyone can share their latest ham radio project, technology, operating mode, DXpedition, or history in the new Project Gallery. Submit your presentation article, video, or slideshow at [Project Gallery Submission](#). Meet with ARRL representatives and other exhibitors in state-of-the-art video lounges. Visit the ARRL booth to meet over live video with ARRL





staff and get your specific questions answered. Other exhibitors will answer product questions, provide technical training, etc. Tickets are only \$10 and grant full access to the Expo weekend, presentations, Project Gallery, and Exhibitor video lounges as well as the 30-day post-Expo on-demand period where all presentations and resources are available. For more information and to purchase tickets, go to [www.qsotodayhamexpo.com](http://www.qsotodayhamexpo.com). -- ARRL is a QSO Today Expo Partner.

**ARRL Online Groups.** ARRL manages several online forums ([groups.io](http://groups.io)) where all radio amateurs - ARRL members and non-members alike - can discuss issues and topics in two-way conversation with ARRL staff and leadership. The groups are aimed at enhancing communication among ARRL leadership, staff, members, and prospective members, in a manner that enables timely updates and collegial discussion. The current ARRL online subgroups include the following:

- Antenna Law and Policy Forum
- ARRL-Awards
- ARRL-Contesting
- ARRL-Education
- ARRL-HF-Band-Planning
- ARRL-LoTW
- ARRL-New-Hams
- ARRL-Regulatory-Affairs
- Feedback to ARRL

Visit <https://www.arrl.org/arrl-groups> for more information.

## In Brief...

**A crossband activation of NEPM, the Battleship USS *Iowa*'s original active call sign, is scheduled in memory of Pearl Harbor.** As the representative of the National Museum of the Surface Navy at the Battleship Iowa Museum in San Pedro, California, the Battleship Iowa Amateur Radio Association (BIARA) will honor the sailors and ships previously homeported in San Pedro who were attacked on December 7, 1941, with special crossband activations of NEPM on December 6 and 7, 2022. When Pearl Harbor was attacked, seven of the battleships formerly homeported in San Pedro Bay were not present. Eight Pacific fleet battleships -- the USS *Arizona*, USS *California*, USS *Maryland*, USS *Nevada*, USS *Oklahoma*, USS *Tennessee*, USS *West Virginia*, and USS *Pennsylvania* -- were at Pearl Harbor and absorbed the brunt of the Japanese attack. Of these eight ships, three sank, one capsized, and four suffered varying degrees of damage. Under the authority of the Navy and Marine Corps Spectrum Office Southwest, they will transmit using the *Iowa*'s NEPM call sign on assigned military frequencies and listen for calls from the amateur radio community in their adjacent bands. NEPM will transmit on 14.375 MHz, 18.170 MHz, and/or 21.460 MHz on J3E upper sideband and/or A1A CW. The operator will advise listeners as to where they are listening. Amateur participants are reminded not to transmit on the NEPM military frequencies.



Operations on both days are expected to be from 1500 to 2400 UTC. QSL procedures can be found at <https://biara.org>. For specific questions in advance of the operation, contact [w6hb@biara.org](mailto:w6hb@biara.org).

**More African countries are now operating on the 60-meter band.** The South African Radio League (SARL) reports that three new African countries have joined the ranks of 5 MHz as 60-meter operators. They are Botswana, Lesotho, and Eswatini (formerly known as Swaziland). Each country has access to the new WRC-15 amateur secondary allocation of 5351.5 - 5366.5 kHz. This makes a total of 89 countries now on the band worldwide. --Thanks to SARL Secretary Dennis Green, ZS4BS.



## The K7RA Solar Update

This week, September 1 - 7, 2022, two new sunspot groups emerged on September 1, two more on September 2, one more on September 5, another on September 6, and one more on September 7.

But average daily sunspot numbers declined from 74.9 to 68, while average daily solar flux rose from 123.8 to 125.8.

Geomagnetic indicators were way up, and the average daily planetary A index rose from 10.1 to 24.6, while middle latitude numbers increased from 9.4 to 17.4.

September 4 was the most active day, with the planetary A index being 64. On that day, the college A index in Fairbanks, Alaska, was 91!

Predicted solar flux is 125 on September 8 - 14; 126 on September 15; 125 on September 16 - 17; 126 and 120 on September 18 - 19; 125 on September 20 - 21; 115 on September 22 - 24; 120 on September 25 - 28; 118 on September 29 - 30; 115 and 125 on October 1 - 2; 120 on October 3 - 4; 122 on October 5; 120 on October 6 - 7; and 125 on October 8 - 11.

Predicted planetary A index is 50 on October 1! Otherwise, 10 on September 8; 8 on September 9 - 11; 5 on September 12; 20 on September 13 - 14; 10 on September 15; 8 on September 16 - 17; 5 on September 18 - 22; 12 and 10 on September 23 - 24; 14 on September 25 - 27; 8 on September 28 -



Solar disc image taken September 9, 2022, courtesy of NASA SDO/HMI.

29; 22, 50, 25, 16, 12, and 10 on September 30 through October 5; 8 on October 6 - 8, and 5, 12, and 15 on October 9 - 11.

Sunspot numbers for September 1 through 7 were 67, 71, 68, 62, 79, 56, and 73, with a mean of 68. The 10.7-centimeter flux was 116.3, 129.8, 123.4, 128.3, 130.2, 126.2, and 126.1, with a mean of 125.8. Estimated planetary A indices were 9, 8, 25, 64, 32, 20, and 14, with a mean of 24.6. Middle latitude A index was 9, 10, 23, 33, 21, 14, and 12, with a mean of 17.4.

Send your tips, questions, or comments to [k7ra@arrl.net](mailto:k7ra@arrl.net).

A comprehensive K7RA Solar Update is posted Fridays on the ARRL website. For more information concerning radio propagation, [visit](#) the ARRL Technical Information Service, [read](#) "What the Numbers Mean..." and [check out](#) the Propagation Page of Carl Luetzelschwab, K9LA.

A propagation bulletin [archive](#) is available. For customizable propagation charts, visit the [VOACAP Online for Ham Radio](#) website.

[Share](#) your reports and observations.

A weekly, full report is posted on [ARRL News](#).

## Just Ahead in Radiosport

- September 14 -- VHF-UHF FT8 Activity Contest (FT8)
- September 14 -- RSGB 80-Meter Autumn Series (CW)
- September 15 -- NAQCC CW Sprint (CW)
- September 15 -- BCC QSO Party (CW, phone, digital)
- September 15 -- NTC QSO Party (CW)
- September 16 -- AGB NEMIGA Contest (CW, phone, digital)

Visit the [ARRL Contest Calendar](#) for more events and information.

## Upcoming Section, State, and Division Conventions

- September 17 - 18 | [QSO Today Virtual Ham Expo](#) (online event). *ARRL is a QSO Today partner.*
- September 23 - 24 | [HRO Superfest](#), hosting the ARRL Central Division Convention, Milwaukee, Wisconsin
- September 24 | [Red River Radio Amateur Hamfest](#), hosting the ARRL Dakota Division Convention, West Fargo, North Dakota
- September 24 | [Spokane Hamfest](#), hosting the ARRL Washington State Convention, Spokane Valley, Washington
- October 1 | [Wichita Area Hamfest](#), hosting the ARRL Kansas State Convention, Wichita, Kansas
- October 1 | [Rock Hill Hamfest](#), hosting the ARRL South Carolina Section Convention, Rock Hill, South Carolina

- October 7- 8 | [Melbourne Hamfest](#), hosting the ARRL Florida State Convention, Melbourne, Florida
- October 7- 8 | [Slidell EOC Hamfest](#), hosting the ARRL Louisiana State Convention, Slidell, Louisiana
- October 7- 9 | [ARRL Rocky Mountain Division Convention](#), Cheyenne, Wyoming
- October 9 | [Nutmeg Hamfest](#), hosting the ARRL Connecticut State Convention, North Haven, Connecticut
- October 14 - 16 | [Pacificon](#), hosting the ARRL Pacific Division Convention, San Ramon, California
- October 15 | [Wisconsin ARES/RACES Conference 2022](#), hosting the ARRL Wisconsin State Convention, Wisconsin Rapids, Wisconsin
- October 29 | [CopaFest](#), hosting the ARRL Arizona State Convention, Maricopa, Arizona

Search the [ARRL Hamfest and Convention Database](#) to find events in your area.

### **ARRL -- Your One-Stop Resource for Amateur Radio News and Information**

- **Join or Renew Today!** Eligible US-based members can elect to receive [QST](#) or [On the Air](#) magazine in print when they join ARRL or when they renew their membership. All members can access digital editions of all four ARRL magazines: *QST*, *On the Air*, *QEX*, and *NCJ*.
- Listen to [ARRL Audio News](#), available every Friday.
- *The ARRL Letter* is available in an accessible format, posted weekly to the [Blind-hams Groups.io](#) email group. The group is dedicated to discussions about amateur radio as it concerns blind hams, plus related topics including ham radio use of adaptive technology.

#### **Subscribe to...**

- [NCJ -- National Contest Journal](#). Published bimonthly, features articles by top contesters, letters, hints, statistics, scores, NA Sprint, and QSO parties.
- [QEX -- A Forum for Communications Experimenters](#). Published bimonthly, features technical articles, construction projects, columns, and other items of interest to radio amateurs and communications professionals.

#### **Free of charge to ARRL members...**

- [Subscribe](#) to the *ARES Letter* (monthly public service and emergency communications news), the *ARRL Contest Update* (biweekly contest newsletter), Division and Section news alerts and much more!
- Find ARRL on [Facebook](#)! Follow us on [Twitter](#) and [Instagram](#)!



## HAMFEST INFORMATION

The following hamfests have been scheduled for 2022.

New hamfest in Lexington, NC is this coming Saturday, the 17th. Look for info on the web, possibly on AB4OZ's QRZ page. Alan, AB4OZ, will have a free swapfest this coming Saturday at the Golden Corral parking lot, 3551 Grenelle St., Raleigh (NW corner of 401 and Tryon Rd). Setup time is 9:00 am and fest starts at 10:00 am although most folks will sell if you want to buy something even as they are unloading their gear and paraphernalia!